

SYSTEM AND METHOD
FOR PROGRAMMING NETWORK NODES

ABSTRACT OF THE DISCLOSURE

5 A system and method programs network nodes of a
packet-based network to provide services. A service
creation tool provides an interface for defining packet
processing behaviors in a domain specific programming
10 language and package the service for deployment to the
network. A service control center deploys, provisions
and monitors the service on programmable nodes. Network
processors associated with the programmable nodes have
packet processing behaviors translated from the
15 programming language to operation code with a network
processor abstraction layer. The service control center
and network nodes use a three layer architecture to
represent service, execution environment and
infrastructure functionality.